MOLEAER
ADVANCING NANOBUBBLE TECHNOLOGY

IRRIGATION RESERVOIRS & BASINS

About Moleaer

Moleaer produces cost-effective and proven solutions that increase productivity, reduce reliance on chemicals, and help restore balance to water bodies through nanobubble technology. Over 500 growers worldwide trust Moleaer's nanobubble technology to treat irrigation water to increase productivity and improve sustainability.

Reservoir Water Quality Challenges

Rising global temperatures and climate change exacerbate water quality challenges. Algae growth, pathogen proliferation and water scarcity are all factors that impact plant growth and lead to crop loss. Growers who use water storage basins are experiencing issues with:

- **Low Levels of Dissolved Oxygen (DO)**
- **Algae Blooms**
- **Pathogens and Biofilm**

Water

- Increase dissolved oxygen (DO)
- Improve water cleanliness to reduce chemical usage
- Reduce algae growth, pathogens and biofilm

Soil & Substrates

- Reduce water surface tension to improve water infiltration
- Flocculate soil to reduce compaction
- Improve aerobic conditions in the root zone

Plants

- Better root and plant development
- Improve crop yield and quality
- Improve nutrient uptake efficiency

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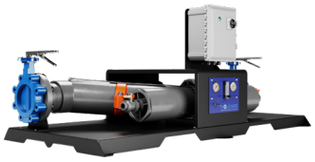
Nanobubble Products

CLEAR

NEO

NEXUS



TITAN

Specifications				
	CLEAR	**NEO**	**NEXUS**	**TITAN**
Treatment Capacity (GPD)	72,000-216,000	72,000-360,000	360,000-720,000	Based on Customer Specifications
Total Energy Consumption (kW)	1-3.2	1.1-4	N/A	
Gas Flow (SCFH)	0-30	0-60	0-180	
Gas Options Air = 20% O_2 Onboard Oxygen = 93% O_2 External Oxygen = 100% O_2	Air	Onboard Oxygen Ozone	Air External Oxygen Source	Air Optional Gas Skid

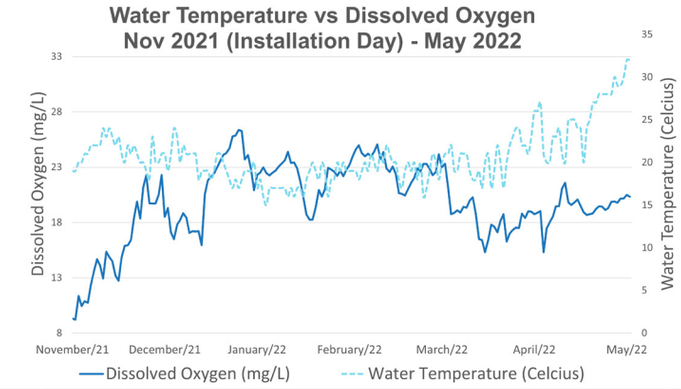
Case Studies: Reservoirs

Biosabor

Spain

9.2-million-gallon (35,000 m³)

- Increased DO from **8 ppm to over 20 ppm**
- Maintained **average of 20 ppm** during warmer months



Freeman Herbs

Canada

6.1-million-gallon (23,000 m³)

- **50%** higher H_2O_2 residual
- **50%** reduction in filter cleaning
- Reduction in microbial counts

Prominent Grevelingen

Netherlands

2-million-gallon (8,000 m³)

- Reduction backflushing
- **50%** reduction in hydrogen peroxide for cleaning

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